

PHGT2, PHHGT3 and PHHGT4 Installation Instructions

1 PHGT, Post-Install Girder Tie Downs:

- 1.1 PHGT2, PHHGT3 and PHHGT4 connectors are tie downs used to join 2-ply, 3-ply or 4-ply girder trusses to wall frames or posts. PHGT connectors are cold-formed from 14-gauge (PHGT2) and 12-gauge (PHHGT3 and PHHGT4) steel with a specified ultimate tensile strength, F_u , of 70 ksi, and a specified yield strength, F_y , of 50 ksi. PHGT connectors are pre-punched for 10d common nails. See **Figure 1** and **Table 1** for fastening schedules and design values.

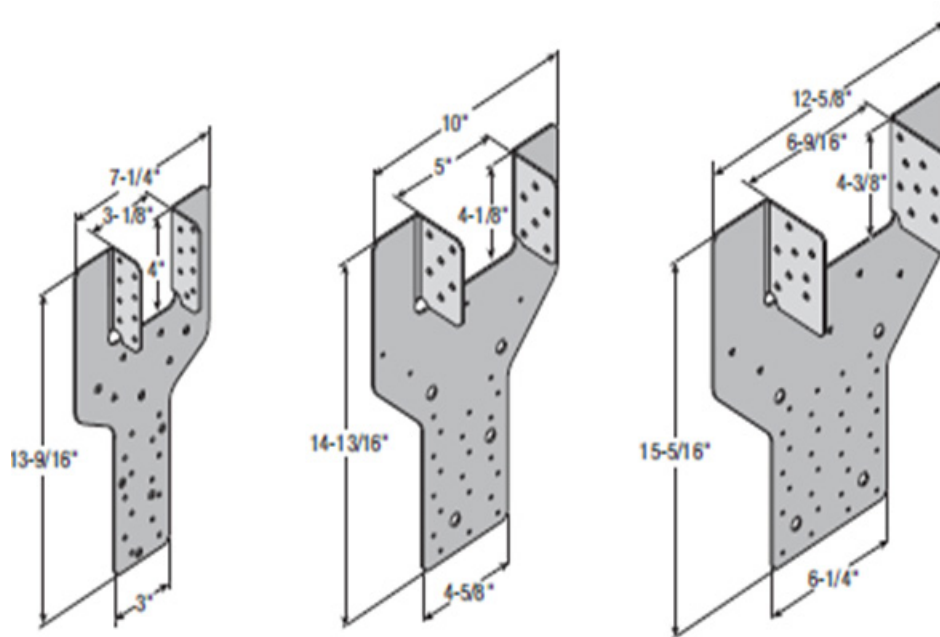


Figure 1. PHGT and PHHGT Post-install Girder Tie Downs

- 1.2 Allowable uplift and lateral design values for PHGT2, PHHGT3, and PHHGT4 connectors are provided in **Table 1**.

Table 1. Uplift and Lateral Design Values for PHGT Connectors

Part No.	Fasteners				Allowable Loads (lb) ^{1,2,3,4}								
	Rafter/Truss		Stud/Top Plate		SP			DF-L			HF/SPF		
	Type	Qty	Type	Qty	Uplift	F1	F2	Uplift	F1	F2	Uplift	F1	F2
PHGT2	10d Common	16	10d common	18	2,435	980	255	2,435	900	255	2,240	745	210
PHHGT3	SWH3	12	10d common	26	3,355	1,230	410	3,130	1,230	360	2,710	1,060	280
PHHGT4	SWH3	16	10d common	37	4,185	2,230	590	3,625	1,825	510	4,185	2,230	590

SI: 1 in = 25.4 mm, 1 lb = 4.45 N

- Refer also to Appendix B. General Notes for Tables in TER 0910-01.
- Loading in the F1 direction indicates shear forces parallel to the plane of the wall, connection to truss/rafter in withdrawal (see **Figure 2**).
- Loading in the F2 direction indicates shear forces perpendicular to the plane of the wall, connection to truss/rafter in shear (see **Figure 2**).
- Allowable loads are provided for a load duration factor (C_D) of 1.6. No further increase is permitted.

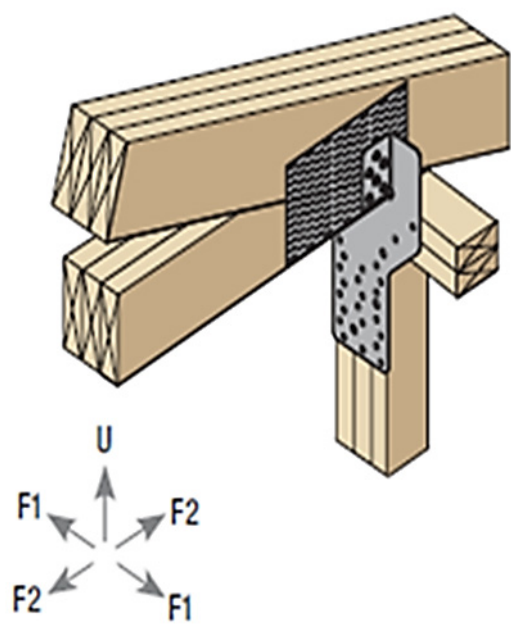


Figure 2. Installed PHHGT3 Connector